AMERICAN ASSOCIATION
OF COLLEGES OF PHARMACY

AACP CURRICULUM AND FACILITIES SURVEY

FOR ACADEMIC YEAR 1985-86

by

Richard P. Penna, Pharm.D.
and
Michael S. Sherman, Ph.D.

Data Tabulated by

ASSOCIATION RESEARCH, INC.
15850 Crabbs Branch Way, Suite 160
Rockville, Maryland 20855

AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY
1426 Prince Street
Alexandria, Virginia 22314

AACP CURRICULUM AND FACILITIES SURVEY

FOR ACADEMIC YEAR 1985-1986

INTRODUCTION

The 1985-86 AACP Curriculum and Facilities Survey represents a first attempt to report on these areas of program and plant for all the colleges of pharmacy in the U.S.

Data were analyzed from the 71 colleges that responded. The survey covers the use of non-salaried (voluntary) faculty, hours required for practice experience in clerkships and externships, hours of general education courses required as a part of the professional degree program, changes in facilities over the previous year, and the number of clinical instruction sites of various types used during the 1985-86 academic year.

The statistical analysis summarizes most responses with highs, lows, and averages, according to the number of colleges responding to each item. An exception is facilities, where raw data and percentages are presented for each type of facility and category. Averages are recorded to the nearest whole hour, person, or site.

ANALYSIS

The number of non-salaried (voluntary) faculty utilized during the year ranged from 2 to 325, with an average of 107 non-salaried faculty being used by the 64 colleges reporting such activity.

For baccalaureate degree clerkships, the 62 schools reporting on the number of hours of required practice experience had an average of 260, with a low of 64 hours and a high of 700 hours (see Table 1). Hours for B.S. externships averaged 414, with a range of 40 to 1,100 hours.

Among the 21 colleges reporting on the Doctor of Pharmacy degree (entry level), clerkships averaged 1,582 hours, with a range of 900 to 2,540 hours, and externships averaged 436 hours, with a 50 to 1,150 hour range.

For the post B.S. Doctor of Pharmacy degree, 31 schools reported an average clerkship of 1,734 hours, with a range of 900 to 2,990 hours. The 5 colleges reporting post B.S. Doctor of Pharmacy externships averaged 416 hours, and ranged from a low of 200 hours to a high of 640 hours.

The number of hours of general education courses required, i.e., English and other courses in the behavioral, social and humanities disciplines, averaged 27 hours for the 43 colleges on a semester hour basis, and ranged from 15 to 39 hours (see Table 2). The 16 colleges on a quarter hour basis averaged 46 hours, with a range of 30 to 99 hours. A trimester or triquarter plan reported by 4 schools had a range of 29 to 72 hours, and an average of 43 hours.

Table 3 presents reported changes over the previous year in the physical facilities utilized by the colleges of pharmacy. A quick glance at the data reveals that teaching laboratory facilities were reduced by 10.1% of the respondents. However 30.0% (21 schools) increased facilities for research labs, and 27.1% of the schools enlarged instructional support facilities.

The number of community pharmacies used as clinical instruction sites during the year averaged 43 for the 68 schools reporting, and ranged from a low of 5 to a high of 137 (see Table 4). Hospitals or similar institutions were used by 71 colleges and averaged 24, with a 1 to 104 range. This is 56% of the community pharmacies used for clinical instruction. Finally, 51 schools reported the use of other sites for clinical instruction, with a range of 1 to 92, and an average of 9 for the various other sites used.

TABLE 1 HOURS OF PRACTICE EXPERIENCE REQUIRED BY SCHOOL

		BS		Pharm D1		Pharm D2	
CODE	SCHOOL	CL	EX	CL	EX	CL	EX
1	Auburn	80	400			1600	
2	Samford	180	360				
3	Arizona	225	225	1575	225		
4	Arkansas	300	300				
5	California (SF)			1500	100		
6	Pacific	128	640	900	640	900	
7	Southern California			1440	195	1440	
8	Colorado	320	320				
9	Connecticut	225	225				
10	Howard	400	600	1500	440	1500	
11	Florida A & M	400	1100	2000	1150	2350	
12	Florida	400	50	1280	50		
13	Mercer			1120	500		
14	Georgia	160	320			1500	
15	Idaho State	320	320				
16	Illinois	200	400			1600	
17	Butler	120	560				
18	Purdue	120	480	1440	480	1440	
19	Drake	360	360				
20	Iowa	320	320			1920	
21	Kansas	240	480				
22	Kentucky	320	320	960	320	960	
23	NE Louisiana	160	400				
24	Xavier						
25	Maryland	200	800	2000	480	2000	
26	Massachusetts	320	400				
27	Northeastern	400	520			1600	
28	Ferris State	300	100				
29	Michigan			1400	200	1400	200
30	Wayne State	270	270			2080	
31	Minnesota		880	1920	640	1920	640
32	Mississippi	320	320				
33	St. Louis	200	400				
34	Missouri	320	380				
35	Montana	200	400				
36	Creighton	400	240	1760	320	1760	320
37	Nebraska			1280	260		

TABLE 1 (CONTINUED)

		BS		Pharm D1		Pharm D2	
CODE	NAME	CL	EX	CL	EX	CL	EX
38	Rutgers	224	640				
39	New Mexico	80	360				
41	A & M Schwartz(42)	700	700				
42	St. Johns(43)	400	239			2990	
43	SUNY Buffalo(44)	200	360			1760	
44	Albany(45)						
45	Campbell						
46	North Carolina		600	1680	480	1680	600
47	North Dakota	400	400				
48	Ohio Northern	120	550				
49	Ohio State		440			2000	
50	Cincinnati	320	480			1344	
51	Toledo	360	400				
52	SW Okalhoma	64	640				
53	Oklahoma	170	374				
54	Oregon State	120	320				
55	Duquesne	160	480			2080	
56	Philadelphia	160	480	2540	480	2380	
57	Temple	160	480				
58	Pittsburgh	120	360				
59	Puerto Rico	288	252				
60	Rhode Island	270	270			2000	
61	S. C. Medical	300	300			1500	
62	South Carolina	360	280	1600	640		
63	South Dakota	240	40				
64	Tennessee	160	320	1560	640	1760	
65	Texas Southern	450	550			1800	
66	Houston	350	650				
67	Texas	325	710	2160	710	2160	
68	Utah	320	320	1600	200	1600	
69	VA Commonwealth	160	480			1280	320
70	Washington	100	300			1440	
71	Washington State	320	332				
72	West Virginia	160	480				
73	Wisconsin	320	120				
74	Wyoming	300	300				
	AVERAGE	260	414	1582	436	1735	416

(CL=Clerkship EX=Externship)

TABLE 2. HOURS OF PRACTICE EXPERIENCE REQUIRED

DEGREE AND EXPERIENCE TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
BACCALAUREATE DEGREE				
CLERKSHIP	62	64	700	260
EXTERNSHIP	65	40	1100	414
DOCTOR OF PHARMACY DEGREE (ENTRY LEVEL)				
CLERKSHIP	21	900	2540	1582
EXTERNSHIP	21	50	1150	436
DOCTOR OF PHARMACY DEGREE (POST B.S.)				
CLERKSHIP	31	900	2990	1735
EXTERNSHIP	5	200	640	416

TABLE 3. HOURS OF GENERAL EDUCATION COURSES REQUIRED AS PART OF PROFESSIONAL DEGREE PROGRAM

TYPE ORGANIZATION	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
SEMESTER HOURS	43	15	39	27
QUARTER HOURS	16	30	99	46
TRIMESTER OR TRIQUARTER HOURS	4	29	72	43

TABLE 4. CHANGES TO PHYSICAL FACILITIES
FROM LAST ACADEMIC YEAR

TYPE FACILITY	SCHOOLS REPORTING	TOTALS INCREASE	DECREASE	NO CHANGE
CLASSROOM	70	6	4	60
	100%	8.6%	5.7%	85.7%
TEACHING LABORATORY	69	8	7	54
	100%	11.6%	10.1%	78.3%
RESEARCH LABORATORY	70	21	1	48
	100%	30.0%	1.4%	68.6%
ADMINISTRATION	69	10	2	57
	100%	14.5%	3.0%	82.6%
INSTRUCTIONAL SUPPORT	70	19	0	51
	100%	27.1%	0.0%	72.9%

TABLE 5. CLINICAL INSTRUCTION SITES USED

TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
COMMUNITY PHARMACIES	68	5	137	43
HOSPITAL, OR OTHER SIMILAR INSTITUTION	71	1	105	24
OTHER SITES	51	1	92	9

A0630-7
10/17/88

[redacted]

AMERICAN ASSOCIATION
OF COLLEGES OF PHARMACY

AACP CURRICULUM AND FACILITIES SURVEY

FOR ACADEMIC YEAR 1986-87

by

Richard P. Penna, Pharm.D.
and
Michael S. Sherman, Ph.D.

Data Tabulated by

ASSOCIATION RESEARCH, INC.
15850 Crabbs Branch Way, Suite 160
Rockville, Maryland 20855

AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY
1426 Prince Street
Alexandria, Virginia 22314

AACP CURRICULUM AND FACILITIES SURVEY

FOR ACADEMIC YEAR 1986-1987

INTRODUCTION

The 1986-87 AACP Curriculum and Facilities Survey provides a second opportunity to compare the areas of program and plant for the colleges of pharmacy in the U.S.

Data were analyzed from the 69 colleges responding. The survey covers the use of non-salaried (voluntary) faculty, hours required for practice experience in clerkships and externships, hours of general education courses required as a part of the professional degree program, changes in facilities over the previous year, and the number of clinical instruction sites of various types used during the 1986-87 academic year.

The statistical analysis summarizes most responses with highs, lows, and averages, according to the number of colleges responding to each item. An exception is facilities where raw data and percentages are presented for each type of facility and category. Averages are recorded to the nearest whole hour, person, or site.

ANALYSIS

The number of non-salaried (voluntary) faculty utilized during the year ranged from 6 to 329, with an average of 106 non-salaried faculty being used by the 58 colleges reporting such activity.

For baccalaureate degree clerkships, 60 schools reported an average of 269 hours of required practice experience, with a low of 48 hours and a high of 1,060 hours (see Tables 1 & 2). Hours for B.S. externships averaged 406, with a range of 100 to 1,100 hours.

Among the 24 colleges reporting on the Doctor of Pharmacy degree (entry level), clerkships averaged 1,553 hours, with a range of 640 to 2,540 hours, and externships averaged 418 hours, with a 100 to 1,500 hour range.

For the post B.S. Doctor of Pharmacy degree, 31 schools reported an average clerkship of 1,742 hours, with a range of 960 to 2,990 hours. The 5 colleges reporting post B.S. Doctor of Pharmacy externships averaged 329 hours, and ranged from a low of 195 hours to a high of 528 hours.

The number of hours of general education courses required (i.e., English and other courses in the behavioral, social and humanities disciplines) averaged 29 hours for the 44 colleges on a semester hour basis, and ranged from 12 to 39 hours (see Table 3). The 12 colleges on a quarter hour basis averaged 46 hours, with a range of 32 to 99 hours. A trimester or triquarter plan reported by 2 schools had a range of 28 to 30 hours, and with an average of 29 hours.

Table 4 presents changes over the previous year in the physical facilities utilized by the colleges of pharmacy. Only 7.8% of the respondents reported a decrease in teaching laboratories. The greatest increases were reported for research laboratories, at 28.1% for those schools reporting, followed by administration and instructional support at 17.2% each.

The number of community pharmacies used as clinical instruction sites during the year averaged 42 for the 62 schools reporting, and ranged from a low of 3 to a high of 112 (see Table 5). Hospitals or similar institutions were used by 65 colleges and averaged 25, with a 2 to 89 range. Finally, 50 schools reported the use of other sites for clinical instruction, with a range of 1 to 30, and an average of 2 for the various other sites used.

TABLE 1. HOURS OF PRACTICE EXPERIENCE REQUIRED BY SCHOOL

		BS		Pharm D1		Pharm D2	
CODE	SCHOOL	CL	EX	CL	EX	CL	EX
1	Auburn	80	400			1600	
2	Samford	200	400				
3	Arizona	225	225	1575	225		
4	Arkansas	300	300				
5	California (SF)			1500	100		
6	Pacific	48	640	1020	528	1020	528
7	Southern California			1440	220	1440	
8	Colorado	304	152				
9	Connecticut	225	315				
10	Howard	400	624	1600	424	1600	
11	Florida A & M	400	1100	1700	1500	1700	
12	Florida	400	150	1280	1500		
13	Mercer			1200	400		
14	Georgia	160	320			1520	
15	Idaho State	320	320				
16	Illinois			1680		1102	
17	Butler	120	560				
18	Purdue	120	480	1440	480	1440	
19	Drake	360	360				
20	Iowa	320	320			1920	
21	Kansas	240*	480*				
22	Kentucky	320	320	640	320	960	
23	NE Louisiana	160	400				
24	Xavier	150	300				
25	Maryland	200	800	1980	480	1980	
26	Massachusetts	320	400			1800	
27	Northeastern	400	520			1680	
28	Ferris State	300	100				
29	Michigan			1367	195	1367	195
30	Wayne State	260	260			2080	
31	Minnesota		880	1600	640	1920	
32	Mississippi	320	320				
33	St. Louis	200*	400*				
34	Missouri	320*	380*				
35	Montana	200	400				
36	Creighton	400*	240*	1760*	320*	1760*	320*
37	Nebraska			1280	280		
38	Rutgers	196	640				
39	New Mexico	180	360				
41	A & M Schwartz	480	240				

TABLE 1. (CONTINUED)

		BS		Pharm D1		Pharm D2	
CODE	SCHOOL	CL	EX	CL	EX	CL	EX
42	St. Johns	400	239			2990	
43	SUNY Buffalo	200	360			1920	
44	Albany	200	400	2200	400	2200	400
45	Campbell			1200	480		
46	North Carolina	160	480	1600	480	1600	
47	North Dakota	400	400			1920	
48	Ohio Northern	280	440				
49	Ohio State	1060	440				
50	Cincinnati	160	320			1344	
51	Toledo	400	360				
52	SW Oklahoma	64	640				
53	Oklahoma	150	350				
54	Oregon State	120	320				
55	Duquesne	160	480			2080	
56	Philadelphia	160	480	2540	480	2380	
57	Temple	640					
58	Pittsburgh	120	360				
59	Puerto Rico	288	252				
60	Rhode Island	300	300			1920	
61	S. C. Medical	180	375			2000	
62	South Carolina	320	280	1600	320		
63	South Dakota	240	400				
64	Tennessee			1240	240		
65	Texas Southern	460	540	1550	470	1750	
66	Houston	350	650				
67	Texas	300	705	2160	600	2160	
68	Utah	300	200	1880	200	1880	200
69	VA Commonwealth	160	480			1280	320
70	Washington	100	300			1440	
71	Washington State	320	332				
72	West Virginia	160	480				
73	Wisconsin	220	120				
74	Wyoming	300	300				
1986-87	AVERAGE	269	406	1553	418	1742	329
	NUMBER OF REPORTS	(60)	(60)	(24)	(23)	(31)	(5)
1985-86	AVERAGE	260	414	1582	436	1735	416
	NUMBER OF REPORTS	(62)	(65)	(21)	(21)	(31)	(5)

(CL = Clerkship EX = Externship)
(* = '85-86 Data - not included in '86-87 averages)

TABLE 2. HOURS OF PRACTICE EXPERIENCE REQUIRED

DEGREE AND EXPERIENCE TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
BACCALAUREATE DEGREE				
CLERKSHIP	60	48	1060	269
EXTERNSHIP	60	100	1100	409
DOCTOR OF PHARMACY DEGREE (ENTRY LEVEL)				
CLERKSHIP	24	640	2540	1553
EXTERNSHIP	23	100	1500	418
DOCTOR OF PHARMACY DEGREE (POST B.S.)				
CLERKSHIP	31	960	2990	1742
EXTERNSHIP	5	195	528	329

TABLE 3. HOURS OF GENERAL EDUCATION COURSES REQUIRED AS PART OF PROFESSIONAL DEGREE PROGRAM

TYPE ORGANIZATION	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
SEMESTER HOURS	44	17	39	29
QUARTER HOURS	17	30	99	46
TRIMESTER OR TRIQUARTER HOURS	32	28	30	29

TABLE 4. CHANGES TO PHYSICAL FACILITIES
FROM LAST ACADEMIC YEAR

TYPE FACILITY	SCHOOLS REPORTING	TOTALS INCREASE	DECREASE	NO CHANGE
CLASSROOM	64 100%	4 6.3%	2 3.1%	58 90.6%
TEACHING LABORATORY	64 100%	5 7.8%	5 7.8%	54 84.4%
RESEARCH LABORATORY	64 100%	18 28.1%	1 1.6%	45 70.3%
ADMINISTRATION	64 100%	11 17.2%	0 0.0%	53 82.8%
INSTRUCTIONAL SUPPORT	64 100%	11 17.2%	1 1.6%	52 81.3%

TABLE 5. CLINICAL INSTRUCTION SITES USED

TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
COMMUNITY PHARMACIES	62	3	119	42
HOSPITAL, OR OTHER SIMILAR INSTITUTION	65	2	89	25
OTHER SITES	50	1	30	7